

and there is another smaller one on the outer lip below the external angle.

Alt. 2, diam. 2.7 mm.

Differs from *lineata* and *Foxi* in the trochiform shape, almost complete freedom from spiral threads on the base, and in the acute periphery. It has a small tubercle on the outer lip, as in *L. Foxi*, a larger species with sculptured base, rounded periphery, scalloped upper lip and different contour.

The specimens were found associated with *L. lineata*.

#### NOTES ON THE MOLLUSCA OF OWASCO LAKE, N. Y.

BY FRANK C. BAKER.

Recently the Chicago Academy of Sciences has received from Dr. Howard N. Lyon, of Chicago, a fine lot of the shells of Cayuga Co., N. Y., collected for the most part by himself about Owasco Lake and River. Dr. Lyon was very precise concerning his data, and for this reason a list of the species in the collection may be of value.

For brevity I have used the following symbols for localities :

\* Near Auburn, in Owasco River.

\*\* Hayden's Mills, six miles below Auburn.

† Foot of Owasco Lake.

‡ Cascade.

†† Marsh at foot of Owasco Lake.

‡‡ North end of Owasco Lake.

1. *Alasmodonta rugosa* Barnes,\*† July, 1893.

2. *Alasmodonta pressa* Lea,\*† in brook four miles north of Auburn, July 1893 and 1882.

3. *Strophitus edentulus* Say.†

4. *Unio complanatus* Solander,\* in South Street Brook, July, 1879.

5. *Anodontopsis subcylindraceus* Lea,\* in South Street Brook, various collections from 1880 to 1885.

6. *Lampsilis luteolus* Lam,\* July, 1883.

7. *Sphærium simile* Say,\* in South Street Brook, 1882.

8. *Vallonia pulchella* Müller, April, 1882.

9. *Polygyra albolabris* Say.‡

10. *Polygyra thyroides* Say, var. *bucculenta* Gould.‡

11. *Polygyra palliata* Say.†
12. *Polygyra tridentata* Say.†
- 12a. *Polygyra tridentata* var. *juxtidentens* Pilsbry.†
- 12b. *Polygyra tridentata* var. *bidentata* Baker.†
13. *Polygyra monodon* Rackett.†

Nos. 9 to 13 were collected on a well wooded limestone hill, well watered.

14. *Bifidaria armifera* Say.\*
15. *Pupa muscorum* Linné, Auburn. Common in damp grass throughout the city, often found in private grounds.
16. *Vertigo milium* Gould,\*\* 1880.
17. *Cochlicopa lubrica* Müller,\*\* 1880 and 1876, on driftwood in Owasco River at Auburn.
18. *Omphalina fuliginosa* Griff.† 1883.
18. *Vitrea hammonis* Ström,\*\* April, 1882.
20. *Cornutus fulvus* Müll.,\*\* on roots of grass near edge of river, April, 1882.
21. *Zonitoides arboreus* Say.†
22. *Zonitoides nitidus* Müller,\*\* April, 1882.
23. *Gastrodonta ligera* Say,\*\* April, 1882.
24. *Agriolimax campestris* Binney.
25. *Pyramidula alternata* Say,\* very abundant in low meadows, under bark of trees and the under side of logs where the ground is partially shaded.
26. *Helicodiscus lineatus* Say.†
27. *Succinea retusa* Lea, †† on logs and trunks of trees near high water mark, July, 1880.
28. *Succinea arara* Say, †† July, 1880, in company with the above.
29. *Limnæa palustris* Müller, †† 1884.
30. *Limnæa emarginata* Say, †† \*\* also in Owasco River, at foot of lake, 1880, and April, 1882.
31. *Limnæa desidiosa* Say, †† on weeds, 1880.
33. *Planorbis bicarinatus* Say, †, 1881, Port Byron, 1883.
34. *Planorbis trivolvis* Say, † old and new outlets, 1880, Port Byron.
35. *Planorbis campanulatus* Say, \* 1882, also in brook emptying into lake at Cascade.
36. *Planorbis parvus* Say, \* on big dam.
37. *Physa heterostropha* Say,\* Port Byron, 1879 to 1882.

38. *Physa ancillaria* Say, †† 1879 to 1885.

39. *Aplexa hypnorum* Linne, †† 1883.

40. *Valvata tricarinata* Say, \* found in driftwood at the tail race of the "Big Run," spring of 1881.

41. *Campeloma decisum* Say, † Owasco River near Owasco Lake, August, 1882, also in Owasco River three miles below lake.

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#### AGASSIZ ASSOCIATION DEPARTMENT.

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[Conducted in the interest of the Isaac Lea Conchological Chapter of the Agassiz Association, by its General Secretary, DR. W. S. STRODE.]

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During the last year I have done all the work possible towards collecting the *Pisidia* of the northeast of Maine. About 50,000 specimens have been obtained and worked over by Dr. V. Sterki of New Philadelphia, Ohio. The material has been finely preserved in nearly every locality. The cold water of our streams is favorable for the development of this minute clam. In all about twenty species and some varieties have been obtained. Many of these species have proved new to the State, and a few have been published by Dr. Sterki as new species. A part are very difficult to identify until a larger amount of material is obtained. It sometimes results that among thousands of specimens there will be only one individual representing a certain species. *Pisidium contortum* Prime, has been found living in a small lake in the northeast of Perham. It had heretofore only been found fossil, in Maine and Massachusetts.

The little *Pisidium milium* Held, so common in the north of Europe (a straggler like myself), has been found living in the south branch of Caribou stream in Woodland. It is curious how this little creature came across the ocean.

Two years ago I found *Planorbis crista* Lin., var. *cristata* Drap., a species of Northern Europe, in Barren Brook, Caribou. This summer I have found it fossil in the marl deposit of Lovely Brook in the town of Fort Fairfield. I think this is proof that it was not imported by any accident or in the outfit of any emigrant coming to this continent. In my last report I had about 81 species collected in this region. This year I have of land shells 33 species, fresh water gastropoda 23 species, and of *Unio* 1, *Margaritana* 2, and *Anodonta* 1 species; *Sphærium* 5, and *Pisidium* 20 species and several varieties.